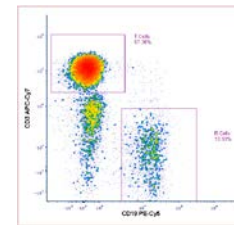


What is Flow Cytometry?

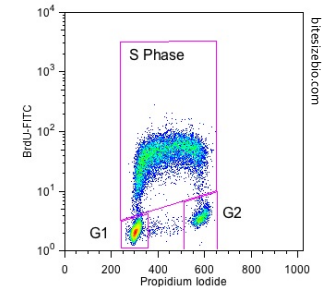
Flow Cytometry was probably the first high-throughput **single-cell analysis** technique to be developed, over 50 years ago!

Flow Cytometry measures the properties of cells and particles in a stream of fluid, allowing multiparametric analysis at a single-cell level. Fluorescently-labeled cells in suspension are run on flow cytometers where they pass in file, one by one, through one or more lasers of different wavelengths. Scattered laser light or emitted fluorescence are collected and transmitted through optical pathways and amplified/digitized for downstream analysis.

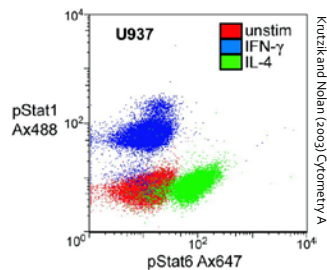
Immunophenotyping



Cell Cycle



Phosphorylation

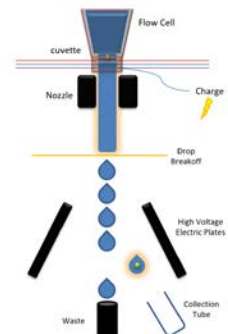


In Cancer Research,

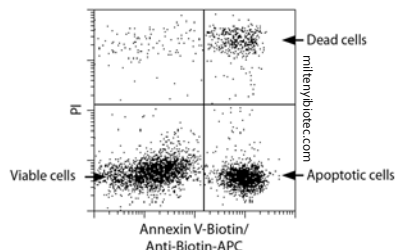
Flow Cytometry can be applied to answer an assortment of different biological questions through a variety of applications that include the measurement of **DNA content, immunological phenotyping, cell death, proliferation, phosphorylation and RNA expression**, among many other parameters.

Cell sorters are an extension of this technology which allow for isolation of specific populations from heterogeneous samples for a variety of downstream applications, such as single-cell sequencing or in vivo studies.

Cell Sorting



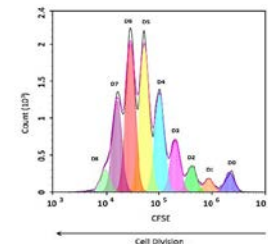
Cell Death



Multidimensional Analysis



Cell Proliferation



RNA Expression

